

**Flood Control Project Maintenance  
Levee Inspections****LMA District Cover Sheet****Spring 2016 Levee Inspection Results****Sacramento Maintenance Yard Sacramento Bypass**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\*  
**SPRING INSPECTIONS:** Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

**FALL INSPECTIONS:** The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2016 Levee Inspection Results**

**Sacramento Maintenance Yard Sacramento Bypass**

Waterway			Bank	Unit Miles
Unit No. 01 Sacramento Bypass or North Levee			Right	1.74
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/2/2016 - 3/2/2016			
DWR Inspector	Jai Lor			
Accompanied By	Casey Lund			

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sacramento Maintenance Yard Sacramento Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	03/02/2016 03/02/2016	Jai Lor

LM Start		Rating **	A	Issue No.	3
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_ST0008_01_s_2013_3				
Comment Code					
Inspector Comment					
The Sacramento Maintenance Yard has levee manuals.					

No Photos

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_ST0008_01_s_2013_4				
Comment Code					
Inspector Comment					
The Sacramento Maintenance Yard maintains a stockpile of flood response material.					

No Photos

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_ST0008_01_s_2013_5				
Comment Code					
Inspector Comment					
The Sacramento Yard has a written response plan and regular flood response training.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sacramento Maintenance Yard Sacramento Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	03/02/2016 03/02/2016	Jai Lor

LM Start	0.01	Rating **	A	Issue No.	6
LM End	0.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.607238 °	38.604474 °
				-121.560280 °	-121.568704 °
DWR ID	DWR_ST0008_01_s_2016_6				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
LMA has maintained slope vegetation.					

Photo 1 of 1 : SP\_2016\_ST0008\_284\_6\_20160303\_00010.jpg



View of the vegetation on the landward side of the levee looking downstream. Spring 2016.

LM Start	0.01	Rating **	A	Issue No.	7
LM End	0.51	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.607237 °	38.604474 °
				-121.560280 °	-121.568704 °
DWR ID	DWR_ST0008_01_s_2016_7				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
LMA has maintained slope vegetation.					

Photo 1 of 1 : SP\_2016\_ST0008\_284\_7\_20160303\_00011.jpg



View of the vegetation on the waterward side of the levee looking downstream. Spring 2016.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sacramento Maintenance Yard Sacramento Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	03/02/2016 03/02/2016	Jai Lor

LM Start	0.51	Rating **	M	Issue No.	8
LM End	1.73	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.604474 °	38.599521 °
				-121.568704 °	-121.590167 °
DWR ID	DWR_ST0008_01_s_2016_8				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.51	Rating **	M	Issue No.	11
LM End	1.73	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.604474 °	38.599521 °
				-121.568704 °	-121.590167 °
DWR ID	DWR_ST0008_01_s_2016_11				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.94	Rating **	M	Issue No.	10
LM End	0.94	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.602763 °	38.602763 °
				-121.576288 °	-121.576288 °
DWR ID	DWR_ST0008_01_f_2015_10				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_ST0008\_284\_10\_20160302\_00003.jpg



View of the rodent holes on the landward side of the levee looking upstream. Fall 2015.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sacramento Maintenance Yard Sacramento Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	03/02/2016 03/02/2016	Jai Lor

LM Start	1.10	Rating **	M	Issue No.	12
LM End	1.10	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.602180 °	38.602180 °
				-121.579130 °	-121.579130 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44783 DS_ID:19066 EP_NO: 13616 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: After more investigation depressions are from water run off. erosion repair needed FIELD_STRUCT_DESC: 1 of 2. A agricultural drainage pumping system with 24-inch and 20-inch steel discharge pipelines through the north levee of the Sacramento Bypass. The pipe is 6.33 ft below the crown and a siphon breaker on the WS. Vertical GI pipe trash rack on inlet structure. Application no. 13616, 1995 (revised). FS Date: 4/28/2015 2:43:01 PM					

LM Start	1.10	Rating **	M	Issue No.	12 (cont)
LM End	1.10	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_44783\_20611.jpg



Landside view: pumping plant overview

Photo 2 of 2 : UCIP\_SP\_2016\_44783\_20609.jpg



Landside view: vertical GI pipes in inlet structure.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sacramento Maintenance Yard Sacramento Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	03/02/2016 03/02/2016	Jai Lor

LM Start	1.10	Rating **	M	Issue No.	13
LM End	1.10	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.602128 °	38.602128 °
				-121.579150 °	-121.579150 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44784 DS_ID:19079 EP_NO: 13616 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Horizontal Air vent on waterside slope. Green vegetation and depressions also found on waterside slope. FIELD_STRUCT_DESC: 2 of 2. A agricultural drainage pumping system with 24-inch and 20-inch steel discharge pipelines through the north levee of the Sacramento Bypass. The pipe is 6.33 ft below the crown and a siphon breaker on the WS. Vertical GI pipe trash rack on inlet structure. Application no. 13616, 1995 (revised). FS Date: 4/28/2015 2:43:26 PM					

LM Start	<b>1.10</b>	Rating **	M	Issue No.	<b>13 (cont)</b>
LM End	<b>1.10</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2016\_44784\_20619.jpg



Landside view: overview of pumping plant

Photo 2 of 2 : UCIP\_SP\_2016\_44784\_20618.jpg



Landside view: walkway to the pumping plant

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sacramento Maintenance Yard Sacramento Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento Bypass or North Levee	Right	1.74	03/02/2016 03/02/2016	Jai Lor

LM Start	1.26	Rating **	C	Issue No.	9
LM End	1.26	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.601398 °	38.601398 °	
			-121.581923 °	-121.581923 °	
DWR ID	DWR_ST0008_01_f_2015_9				
Comment Code					
DE : Debris					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2016 Levee Inspection Results**

**Sacramento Maintenance Yard Sacramento Bypass**

Waterway			Bank	Unit Miles
Unit No. 02 Sacramento Bypass or South Levee			Left	1.79
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/2/2016 - 3/2/2016			
DWR Inspector	Jai Lor			
Accompanied By	Casey Lund			

**Summer & Winter Inspections**

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- a) completion of the inspection
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sacramento Maintenance Yard Sacramento Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento Bypass or South Levee	Left	1.79	03/02/2016 03/02/2016	Jai Lor

LM Start	0.03	Rating **	M	Issue No.	2
LM End	0.03	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.602613 °	38.602613 °
				-121.556021 °	-121.556021 °
DWR ID	DWR_ST0008_02_s_2016_2				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	0.03	Rating **	M	Issue No.	3
LM End	0.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.602594 °	38.600476 °
				-121.556102 °	-121.563838 °
DWR ID	DWR_ST0008_02_s_2016_3				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP\_2016\_ST0008\_285\_3\_20160303\_00001.jpg



View of the vegetation on the landward side of the levee looking downstream. Spring 2016.

LM Start	1.39	Rating **	M	Issue No.	4
LM End	1.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.596635 °	38.594761 °
				-121.579852 °	-121.586508 °
DWR ID	DWR_ST0008_02_s_2016_4				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2016**

**Sacramento Maintenance Yard Sacramento Bypass**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento Bypass or South Levee	Left	1.79	03/02/2016 03/02/2016	Jai Lor

LM Start	1.78	Rating **	M	Issue No.	5
LM End	1.78	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.594702 °	38.594702 °
				-121.586604 °	-121.586604 °
DWR ID	DWR_ST0008_02_s_2016_5				
Comment Code					
FW : Firewood					
Inspector Comment					
This is a seasonal pile but gets burned by the LMA each year.					

Photo 1 of 1 : SP\_2016\_ST0008\_285\_5\_20160303\_00002.jpg



View of the firewood on the landward side of the levee looking upstream.  
Spring 2016.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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